

# Neurodegenerative Diseases

## Course contents:

- Scientific basis of neurology with regard to neurodegeneration
- Diagnosis and classification of dementia and extrapyramidal syndromes, examination methods.
- Neuroimaging techniques and their application in neurodegenerative research
- Methodologies of molecular biology and genetics and their application in neurodegenerative diseases
- Neurotransmitters and signal transduction, substance P, neurogenesis in the adult brain, synaptic plasticity, neurotrophic factor, regulation of gene expression

## Learning outcomes:

The aim of the subject:

Integration of the scientific basis of neurology and psychiatry, and the necessary clinical skills. Imaging methods and their application in neurodegenerative diseases. Management of specific neurological disorders and syndromes in the field of dementia and extrapyramidal syndromes, their interpretation and implementation in scientific and professional practice.

## Recommended literature:

1. Burn D. a kol. Oxford handbook of Movement Disorders. Oxford University Press, Oxford, 2013, ISBN 9780199609536
2. Ames D. a kol. Dementia 5th ed. CRC Press, 2017, ISBN 9781498703109

## Course language:

slovak language  
english language

## Conditions for course completion:

oral exam